

In the Claims

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please cancel claims 10-15 without prejudice or disclaimer.

Please amend pending claims 1 and 8 as noted below.

Please add new claims 16-42.

1. (Currently Amended) A method comprising:
allowing at least a first, a second, a third, and a fourth component of an electrical circuit to assemble in a non-predeterministic, non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third, or fourth components in the direction of any others of the first, second, third, or fourth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third, and fourth components.
2. (Original) A method as in claim 1, comprising allowing the first, second, third, and fourth components to assemble under set conditions to form an interconnected assembly that is inseparable under the set conditions.
3. (Original) A method as in claim 1, wherein each of the first, second, third, and fourth components includes a mating surface that matches a mating surface of at least one other of the first, second, third, and fourth components, the method comprising allowing each of the first, second, third, and fourth components to fasten to at least one other of the first, second, third, or fourth components via matching mating surfaces thereby forming the non-planar arrangement of components.
4. (Original) A method as in claim 3, further comprising providing a fifth component and allowing the first, second, third, fourth, and fifth components to assemble in a non-planar arrangement of components, in the absence of any external net force applied to any of the first,

second, third fourth, or fifth components in the direction of any others of the first, second, third fourth, or fifth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third fourth, and fifth components.

5. (Original) A method as in claim 1, the allowing step comprising causing the first, second, third, and fourth components to undergo random contact interactions with each other until the non-planar arrangement of components is formed.

6. (Original) A method as in claim 3, the allowing step involving providing the first, second, third, and fourth components in a fluid that is incompatible with the mating surfaces, and allowing the mating surfaces to mate thereby minimizing contact between the fluid and the mating surfaces.

7. (Currently Amended) A method as in claim 3, wherein each of the first, second, third, and fourth components includes an electrical connector ~~conductor~~, the allowing step involving allowing the mating surfaces to mate and the electrical connectors ~~conductors~~ of the respective components to be connected electrically.

AI 8. (Currently amended) A method as in claim 7, wherein each of the first, second, third, and fourth components includes an electrical device in electrical communication with the electrical connector of the component, the allowing step involving establishing electrical communication between the electrical devices of the respective components ~~thereby creating an electrical circuit useful for an electrical function.~~

9. (Original) A method as in claim 3, the allowing step comprising allowing a mating surface of the first component to contact a mating surface of the second component reversibly under the set conditions until the first mating surface is in register with and fastens to the second mating surface irreversibly under the set conditions.

10-15. (Cancelled)

A/ 16. (New) A method comprising:

allowing at least a first, a second, a third, and a fourth component of an electrical circuit to assemble in a non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third, or fourth components in the direction of any others of the first, second, third, or fourth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third, and fourth components, wherein at least one of the first, second, third, or fourth components has a mating surface that is rotationally symmetric.

17. (New) A method as in claim 16, comprising allowing the first, second, third, and fourth components to assemble under set conditions to form an interconnected assembly that is inseparable under the set conditions.

18. (New) A method as in claim 16, wherein each of the first, second, third, and fourth components includes a mating surface that matches a mating surface of at least one other of the first, second, third, and fourth components, the method comprising allowing each of the first, second, third, and fourth components to fasten to at least one other of the first, second, third, or fourth components via matching mating surfaces thereby forming the non-planar arrangement of components.

19. (New) A method as in claim 18, further comprising providing a fifth component and allowing the first, second, third, fourth, and fifth components to assemble in a non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third fourth, or fifth components in the direction of any others of the first, second, third fourth, or fifth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third fourth, and fifth components.

20. (New) A method as in claim 16, the allowing step comprising causing the first, second, third, and fourth components to undergo random contact interactions with each other until the non-planar arrangement of components is formed.

21. (New) A method as in claim 18, the allowing step involving providing the first, second, third, and fourth components in a fluid that is incompatible with the mating surfaces, and allowing the mating surfaces to mate thereby minimizing contact between the fluid and the mating surfaces.

A 22. (New) A method as in claim 18, wherein each of the first, second, third, and fourth components includes an electrical connector, the allowing step involving allowing the mating surfaces to mate and the electrical connectors of the respective components to be connected electrically.

23. (New) A method as in claim 22, wherein each of the first, second, third, and fourth components includes an electrical device in electrical communication with the electrical connector of the component, the allowing step involving establishing electrical communication between the electrical devices of the respective components.

24. (New) A method as in claim 18, the allowing step comprising allowing a mating surface of the first component to contact a mating surface of the second component reversibly under the set conditions until the first mating surface is in register with and fastens to the second mating surface irreversibly under the set conditions.

25. (New) A method comprising:

allowing at least a first, a second, a third, and a fourth component of an electrical circuit to assemble in a non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third, or fourth components in the direction of any others of the first, second, third, or fourth components, thereby forming at least one electrical circuit that

traverses at least one portion of each of the first, second, third, and fourth components, wherein the at least one electrical circuit comprises an I/O connection for an integrated circuit.

26. (New) A method as in claim 25, comprising allowing the first, second, third, and fourth components to assemble under set conditions to form an interconnected assembly that is inseparable under the set conditions.

27. (New) A method as in claim 25, wherein each of the first, second, third, and fourth components includes a mating surface that matches a mating surface of at least one other of the first, second, third, and fourth components, the method comprising allowing each of the first, second, third, and fourth components to fasten to at least one other of the first, second, third, or fourth components via matching mating surfaces thereby forming the non-planar arrangement of components.

AI 28. (New) A method as in claim 27, further comprising providing a fifth component and allowing the first, second, third, fourth, and fifth components to assemble in a non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third fourth, or fifth components in the direction of any others of the first, second, third fourth, or fifth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third fourth, and fifth components.

29. (New) A method as in claim 25, the allowing step comprising causing the first, second, third, and fourth components to undergo random contact interactions with each other until the non-planar arrangement of components is formed.

30. (New) A method as in claim 27, the allowing step involving providing the first, second, third, and fourth components in a fluid that is incompatible with the mating surfaces, and allowing the mating surfaces to mate thereby minimizing contact between the fluid and the mating surfaces.

31. (New) A method as in claim 27, wherein each of the first, second, third, and fourth components includes an electrical connector, the allowing step involving allowing the mating surfaces to mate and the electrical connectors of the respective components to be connected electrically.

32. (New) A method as in claim 31, wherein each of the first, second, third, and fourth components includes an electrical device in electrical communication with the electrical connector of the component, the allowing step involving establishing electrical communication between the electrical devices of the respective components.

33. (New) A method as in claim 27, the allowing step comprising allowing a mating surface of the first component to contact a mating surface of the second component reversibly under the set conditions until the first mating surface is in register with and fastens to the second mating surface irreversibly under the set conditions.

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34. (New) A method comprising:

allowing at least a first, a second, a third, and a fourth component of an electrical circuit to assemble in a porous non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third, or fourth components in the direction of any others of the first, second, third, or fourth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third, and fourth components.

35. (New) A method as in claim 34, comprising allowing the first, second, third, and fourth components to assemble under set conditions to form an interconnected assembly that is inseparable under the set conditions.

36. (New) A method as in claim 34, wherein each of the first, second, third, and fourth components includes a mating surface that matches a mating surface of at least one other of the first, second, third, and fourth components, the method comprising allowing each of the first,

second, third, and fourth components to fasten to at least one other of the first, second, third, or fourth components via matching mating surfaces thereby forming the non-planar arrangement of components.

37. (New) A method as in claim 36, further comprising providing a fifth component and allowing the first, second, third, fourth, and fifth components to assemble in a non-planar arrangement of components, in the absence of any external net force applied to any of the first, second, third fourth, or fifth components in the direction of any others of the first, second, third fourth, or fifth components, thereby forming at least one electrical circuit that traverses at least one portion of each of the first, second, third fourth, and fifth components.

38. (New) A method as in claim 34, the allowing step comprising causing the first, second, third, and fourth components to undergo random contact interactions with each other until the non-planar arrangement of components is formed.

39. (New) A method as in claim 36, the allowing step involving providing the first, second, third, and fourth components in a fluid that is incompatible with the mating surfaces, and allowing the mating surfaces to mate thereby minimizing contact between the fluid and the mating surfaces.

40. (New) A method as in claim 36, wherein each of the first, second, third, and fourth components includes an electrical connector, the allowing step involving allowing the mating surfaces to mate and the electrical connectors of the respective components to be connected electrically.

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41. (New) A method as in claim 40, wherein each of the first, second, third, and fourth components includes an electrical device in electrical communication with the electrical connector of the component, the allowing step involving establishing electrical communication between the electrical devices of the respective components.

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42. (New) A method as in claim 36, the allowing step comprising allowing a mating surface of the first component to contact a mating surface of the second component reversibly under the set conditions until the first mating surface is in register with and fastens to the second mating surface irreversibly under the set conditions.

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